

Claims

1.-27. (Cancelled)

28. (Currently Amended) In a speech processing tool operated on a computing device, a method comprising:

receiving a frame for a speech signal at the computing device, the frame representing audio samples taken from the speech signal;

using the computing device, processing a frame for a the frame for the speech signal with the computing device, the frame representing audio samples taken from the speech signal, the processing a ~~frame~~ including processing primary encoded information for the frame and one or more versions of forward error correction information for the frame, wherein the primary encoded information comprises plural parameter values signaled in a bitstream, and wherein each of the one or more versions of forward error correction information comprises a subset of the plural parameter values selected based at least in part on an estimate of extra available bits and signaled in the bitstream in addition to the plural parameter values of the primary encoded information; and

outputting a result usable for playback of the speech signal from the computing device.

29. (Original) The method of claim 28 wherein the subset is also selected based at least in part on network loss rate or decoder loss rate

30. (Original) The method of claim 28 wherein the subset is also selected based at least in part on frame class.

31. (Original) The method of claim 28 wherein the primary encoded information is packed into a single packet with forward error correction information for a preceding frame.

32. (Previously Presented) The method of claim 28 wherein the speech processing tool is a real-time speech encoder that uses linear prediction, wherein the result is encoded speech which is decodable into reconstructed speech for the speech signal, and wherein the plural parameter values are plural linear prediction parameter values.

33. (Original) The method of claim 28 wherein the speech processing tool is a real-time speech decoder that uses linear prediction, wherein the result is reconstructed speech, and wherein the plural parameter values are plural linear prediction parameter values.

34. (Cancelled)

35. (Currently Amended) In a speech processing tool operated on a computing device, a method comprising:

receiving a frame for a speech signal at the computing device, the frame representing audio samples taken from the speech signal;

using the computing device, processing the frame for the a frame for a speech signal with the computing device, the frame representing audio samples taken from the speech signal, the processing a frame the frame including processing primary encoded information for the frame and plural versions of forward error correction information for the frame, wherein each of the plural versions of forward error correction information for the frame is separately signaled in a bitstream in addition to the primary encoded information for the frame, wherein the primary encoded information comprises plural parameter values, and wherein each of the plural versions of forward error correction information comprises a different subset of the plural parameter values for the frame; and

outputting a result usable for playback of the speech signal from the computing device.

36. (Original) The method of claim 35 wherein each of the plural versions of forward error correction information is packed into a different packet for network transmission.

37. (Previously Presented) The method of claim 35 wherein the speech processing tool is a real-time speech encoder that uses linear prediction, wherein the result is encoded speech which is decodable into reconstructed speech for the speech signal, and wherein the plural parameter values are plural linear prediction parameter values.

38. (Original) The method of claim 35 wherein the speech processing tool is a real-time speech decoder that uses linear prediction, wherein the result is reconstructed speech, and wherein the plural parameter values are plural linear prediction parameter values.

39. (Cancelled)

40. (Previously Presented) In an audio processing tool operated on a computing device, a method comprising:

receiving encoded information for an audio signal at the computing device;

~~using the computing device,~~ processing encoded information for ~~an~~ the audio signal with the computing device, the encoded information representing audio samples taken from the speech signal, wherein the encoded information includes forward error correction information for a first frame and primary encoded information for a second frame, wherein the forward error correction information for the first frame and the primary encoded information for the second frame are signaled in a bitstream in addition to forward error correction information for the second frame and primary encoded information for the first frame, and wherein at least some of the forward error correction information for the first frame is predictively encoded relative to the primary encoded information for the second frame; and outputting a result usable for playback of the speech signal from the computing device.

41. (Original) The method of claim 40 wherein a single packet includes the forward error correction information for the first frame and the primary encoded information for the second frame.

42. (Original) The method of claim 41 wherein the single packet further includes forward error correction information for one or more other frames.

43. (Original) The method of claim 40 wherein the second frame is the current frame and the first frame is a preceding frame.

44. (Original) The method of claim 40 wherein the forward error correction information for the first frame comprises linear prediction coefficient information predicted from corresponding coefficient information for the second frame.

45. (Original) The method of claim 44 wherein the forward error correction information for the first frame comprises one or more excitation parameters predicted from corresponding excitation parameters for the second frame.

46. (Previously Presented) The method of claim 40 wherein the audio processing tool is a real-time speech encoder and the result is encoded speech which is decodable into reconstructed speech for the speech signal.

47. (Original) The method of claim 40 wherein the audio processing tool is a real-time speech decoder and the result is reconstructed speech.

48.-70. (Cancelled)